

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P212770

Luminaire Tested: **LD6B10D010 EU6B10208027 6LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10D010 EU6B10208027 6LBSWLI1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 971.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

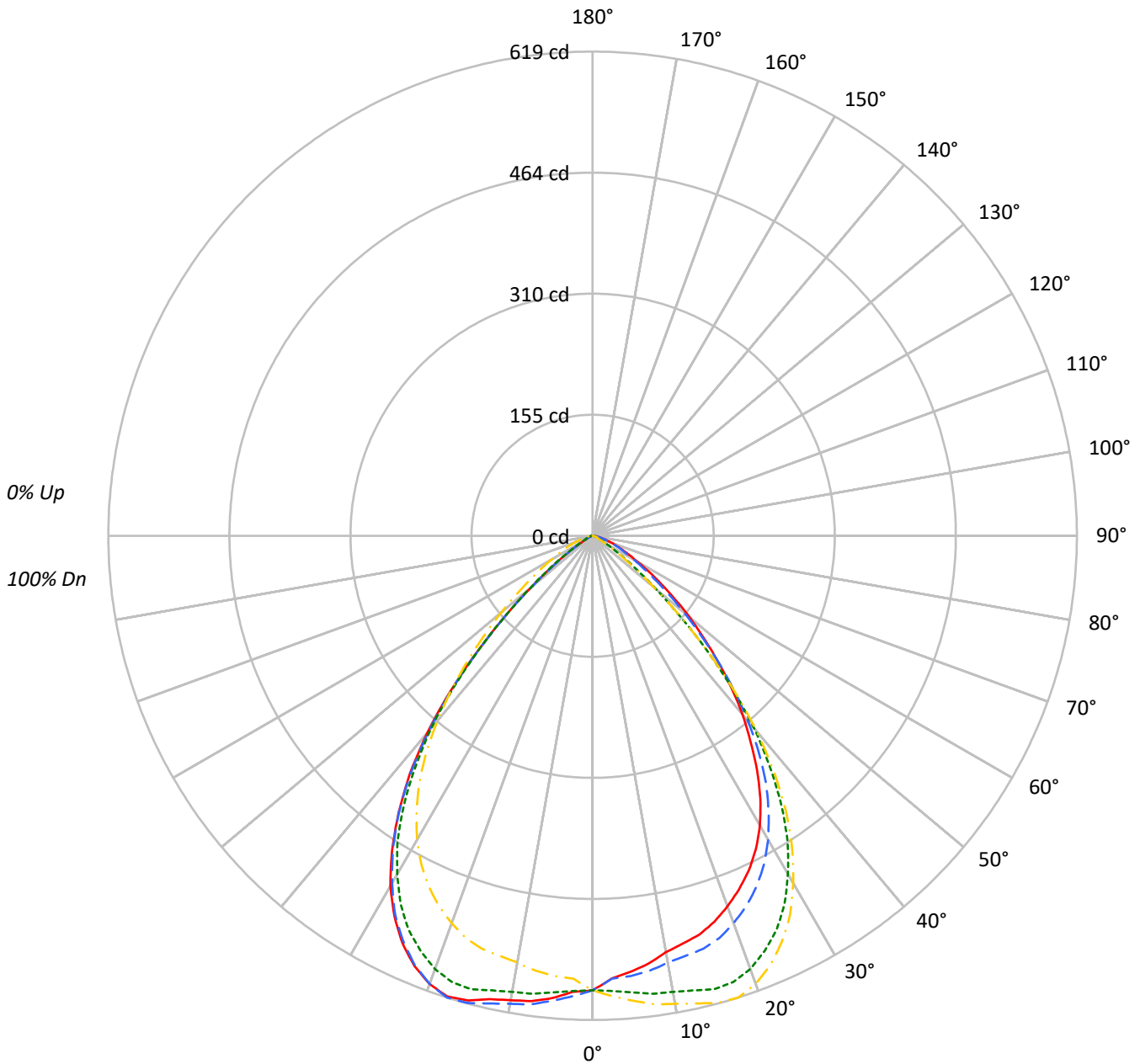
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	31856	31856	31856	31856
5°	30789	32242	32649	32242
10°	30087	32954	33555	32954
15°	29949	34058	34904	34058
20°	29403	34379	35563	34379
25°	28562	33637	34786	33637
30°	27067	31606	32720	31606
35°	24541	28161	28931	28161
40°	21304	22950	23530	22950
45°	17467	15839	15947	15839
50°	13731	8887	8716	8887
55°	10150	4396	3947	4396
60°	7192	1930	1414	1930
65°	5357	1232	882	1232
70°	3911	978	657	978
75°	2859	720	424	720
80°	1926	631	221	631
85°	1258	440	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	5.7
10°-20°	164.8	17.0
20°-30°	245.9	25.3
30°-40°	252.6	26.0
40°-50°	163.6	16.8
50°-60°	60.8	6.3
60°-70°	20.0	2.1
70°-80°	7.0	0.7
80°-90°	1.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	466.3	48.0
0°-40°	718.9	74.0
0°-60°	943.4	97.1
0°-90°	971.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	581	581	581	581	581	
5°	560	586	593	586	560	53
15°	528	600	615	600	528	148
25°	472	556	575	556	472	216
35°	367	421	432	421	367	228
45°	225	204	206	204	225	174
55°	106	46	41	46	106	97
65°	41	10	7	10	41	42
75°	14	3	2	3	14	15
85°	2	1	1	1	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	566.3	574.4	569.0	572.3	566.9	566.9	577.8	571.7	576.4	571.7	566.9
5°	559.5	569.6	562.9	566.3	561.5	562.2	572.3	567.6	572.3	569.0	564.9
7.5°	551.4	561.5	555.4	558.8	554.1	555.4	566.3	561.5	566.9	563.5	560.8
10°	540.5	551.4	546.0	549.3	545.3	546.0	556.8	553.4	558.1	556.1	554.1
12.5°	533.8	543.9	537.8	541.2	538.5	539.9	550.0	547.3	553.4	551.4	550.0
15°	527.7	537.2	531.8	535.1	533.1	533.8	544.6	541.9	548.7	547.3	546.6
17.5°	517.5	527.7	521.6	525.7	523.6	524.3	535.1	533.1	539.9	539.9	539.2
20°	504.0	514.2	509.4	512.1	510.8	512.1	521.6	520.3	527.0	527.0	527.0
22.5°	489.1	499.3	493.9	496.6	495.2	497.2	506.0	506.0	511.5	512.1	512.8
25°	472.2	482.4	477.0	480.3	479.0	480.3	488.5	489.1	493.9	493.9	495.2
27.5°	451.9	462.1	456.7	459.4	458.7	459.4	468.2	469.5	472.2	472.9	474.2
30°	427.6	437.0	431.6	434.3	434.3	434.3	443.1	443.8	446.5	447.2	448.5
32.5°	399.2	407.3	403.2	405.9	405.2	406.6	412.7	415.4	418.8	418.1	418.8
35°	366.7	375.5	371.4	373.4	374.1	376.2	380.2	383.6	384.3	384.9	386.3
37.5°	331.5	340.3	336.2	338.3	338.9	343.0	344.4	347.7	349.1	349.1	349.1
40°	297.7	301.7	298.3	300.4	301.1	304.4	305.8	308.5	309.9	309.2	308.5
42.5°	261.1	264.5	261.1	263.2	263.2	265.9	266.6	269.9	269.9	268.6	266.6
45°	225.3	228.7	225.3	226.6	226.6	229.3	229.3	229.3	230.7	228.7	225.3
47.5°	191.5	194.8	191.5	192.8	192.1	194.2	193.5	194.2	192.1	190.8	186.7
50°	161.0	162.4	161.0	160.3	161.0	162.4	161.7	161.7	159.0	157.0	152.2
52.5°	131.2	133.3	131.2	131.2	131.2	132.6	132.6	131.9	129.2	126.5	121.8
55°	106.2	107.6	106.9	106.2	106.2	107.6	106.2	106.2	103.5	101.5	96.7
57.5°	84.6	85.2	84.6	84.6	84.6	85.2	85.2	83.9	81.9	79.8	76.4
60°	65.6	66.3	66.3	65.6	65.6	67.0	67.0	66.3	64.3	62.9	59.5
62.5°	52.1	52.1	52.1	52.1	52.1	52.8	52.8	52.8	51.4	50.1	47.4
65°	41.3	41.9	41.3	41.3	41.9	42.6	41.9	42.6	41.3	40.6	38.6
67.5°	31.8	32.5	31.8	32.5	32.5	33.1	32.5	33.1	31.8	31.1	29.8
70°	24.4	24.4	24.4	24.4	24.4	25.0	24.4	25.0	24.4	23.7	22.3
72.5°	18.3	18.3	18.9	18.9	18.3	18.9	18.3	18.3	18.3	17.6	16.9
75°	13.5	13.5	14.2	13.5	13.5	13.5	13.5	13.5	12.9	12.9	12.2
77.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.8	8.8	8.1
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.4	5.4
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.4	3.4
85°	2.0	2.0	2.0	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.7	0.7	0.7	1.4	0.7	0.7	1.4	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	572.3	574.4	574.4	572.3	577.1	573.0	581.1	573.7	575.7	582.5	581.8
5°	570.3	573.0	573.7	572.3	578.4	575.1	583.2	575.7	579.1	585.9	585.9
7.5°	567.6	571.0	572.3	573.7	579.1	575.7	585.2	577.8	582.5	590.6	589.9
10°	561.5	566.3	569.0	571.0	576.4	574.4	584.5	578.4	582.5	592.0	591.3
12.5°	558.1	563.5	567.6	571.0	577.1	575.7	585.9	580.5	585.9	595.3	595.3
15°	555.4	561.5	566.3	572.3	578.4	577.1	587.9	583.2	588.6	600.1	599.4
17.5°	548.7	556.1	560.8	567.6	573.7	573.0	584.5	581.1	587.2	598.1	598.7
20°	537.2	543.9	549.3	557.5	564.2	562.9	575.1	571.7	577.8	589.3	589.9
22.5°	522.3	529.0	534.5	543.3	549.3	548.7	560.8	557.5	563.5	574.4	575.1
25°	504.7	510.8	516.2	524.3	531.1	531.1	541.9	538.5	545.3	556.1	556.1
27.5°	483.0	488.5	493.2	502.7	508.1	508.1	518.2	514.8	521.6	531.1	530.4
30°	456.7	461.4	465.5	473.6	478.3	479.0	487.8	484.4	491.2	499.3	499.3
32.5°	424.9	429.6	432.3	442.5	445.8	445.2	451.9	448.5	455.3	464.1	462.1
35°	391.0	393.1	395.1	405.2	406.6	403.9	410.7	407.3	412.0	420.8	419.4
37.5°	352.5	353.1	353.1	361.9	362.6	360.6	364.6	360.6	364.0	372.1	371.4
40°	309.9	309.2	308.5	315.3	314.6	310.5	313.2	309.9	314.6	320.7	317.3
42.5°	266.6	264.5	261.8	265.2	262.5	259.1	260.5	255.1	258.4	263.2	259.1
45°	223.9	219.9	214.5	215.1	211.8	207.7	205.7	200.3	199.6	204.3	200.9
47.5°	184.0	175.9	171.2	168.5	163.0	159.7	155.6	149.5	146.8	149.5	146.1
50°	148.2	140.0	134.0	127.9	122.5	118.4	111.6	107.6	103.5	104.2	101.5
52.5°	117.0	111.6	101.5	96.7	91.3	86.6	80.5	75.8	71.0	71.0	68.3
55°	92.7	85.2	78.5	71.7	66.3	62.2	56.2	51.4	46.7	46.0	43.3
57.5°	71.7	66.3	58.9	52.1	48.7	44.7	38.6	33.1	30.4	28.4	26.4
60°	55.5	50.1	44.0	38.6	34.5	31.8	25.7	21.6	18.9	17.6	15.6
62.5°	44.7	39.9	34.5	29.1	26.4	23.7	18.9	15.6	12.9	11.5	10.1
65°	35.9	31.8	27.7	23.7	21.6	18.9	15.6	12.9	10.8	9.5	8.1
67.5°	27.7	25.0	21.6	18.9	16.9	14.9	12.2	10.1	8.8	7.4	6.8
70°	21.0	18.9	16.9	14.2	12.9	11.5	9.5	7.4	6.8	6.1	5.4
72.5°	16.2	14.2	12.2	10.8	9.5	8.8	7.4	6.1	5.4	4.7	4.1
75°	10.8	10.1	8.8	7.4	6.8	6.1	5.4	4.7	4.1	3.4	3.4
77.5°	7.4	6.8	6.1	5.4	4.7	4.7	4.1	3.4	2.7	2.7	2.0
80°	4.7	4.1	4.1	3.4	3.4	3.4	2.7	2.0	2.0	2.0	1.4
82.5°	3.4	2.7	2.7	2.0	2.0	2.0	2.0	1.4	1.4	1.4	0.7
85°	2.0	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	576.4	582.5	582.5	587.9	588.6	587.2	581.1	581.1	589.3	594.0	585.9
5°	581.8	587.9	587.9	593.3	596.0	594.0	587.9	588.6	596.7	602.1	594.0
7.5°	586.6	592.6	594.0	600.1	602.1	600.1	594.0	595.3	604.1	608.9	600.8
10°	588.6	594.7	595.3	602.1	604.8	602.1	597.4	598.1	607.5	610.9	603.5
12.5°	593.3	599.4	599.4	606.8	609.6	607.5	601.4	602.8	612.3	615.6	608.2
15°	598.1	604.1	604.1	612.3	615.6	612.9	608.2	608.9	618.3	621.7	615.6
17.5°	598.1	603.5	603.5	612.3	615.6	613.6	608.2	608.9	619.0	621.7	615.6
20°	589.3	595.3	594.0	602.8	606.2	604.1	599.4	599.4	609.6	612.3	606.2
22.5°	575.1	580.5	579.1	587.2	591.3	588.6	584.5	583.8	594.0	596.7	590.6
25°	555.4	560.8	559.5	567.6	571.7	568.3	563.5	564.2	572.3	576.4	571.0
27.5°	532.4	535.8	533.8	541.9	546.0	542.6	537.8	538.5	546.6	549.3	545.3
30°	501.3	504.0	502.0	508.8	511.5	509.4	505.4	505.4	512.8	516.2	512.1
32.5°	464.1	466.1	464.1	469.5	474.9	470.9	466.8	466.8	474.9	477.6	472.9
35°	420.8	422.8	421.5	426.9	430.9	425.5	422.2	420.8	431.6	430.3	427.6
37.5°	372.8	374.1	370.1	379.5	381.6	375.5	372.8	371.4	380.9	380.2	377.5
40°	318.6	320.0	317.3	324.1	324.7	320.0	318.0	315.9	325.4	324.7	322.7
42.5°	261.1	261.8	258.4	263.8	265.2	260.5	259.8	257.1	265.9	264.5	263.8
45°	201.6	201.6	198.9	203.0	204.3	200.3	198.9	198.2	204.3	204.3	203.0
47.5°	146.1	144.1	140.7	146.8	147.5	144.8	144.1	142.1	148.2	148.2	146.8
50°	100.1	99.4	98.8	100.1	100.8	97.4	99.4	97.4	100.8	100.8	100.8
52.5°	67.0	66.3	64.9	66.3	66.3	64.3	64.3	63.6	66.3	66.3	64.9
55°	41.9	41.3	40.6	41.3	41.3	39.2	40.6	39.2	40.6	40.6	39.9
57.5°	25.7	24.4	24.4	23.7	23.7	22.3	23.0	23.0	23.0	23.0	23.0
60°	14.9	14.2	13.5	13.5	13.5	12.9	12.9	12.9	12.9	12.9	12.9
62.5°	9.5	9.5	8.8	8.8	8.8	8.8	8.8	8.1	8.8	8.8	8.8
65°	8.1	7.4	7.4	7.4	7.4	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.1	6.1	6.1	6.1	5.4	5.4	5.4	5.4	5.4	5.4
70°	5.4	4.7	4.7	4.7	4.7	4.7	4.1	4.7	4.7	4.1	4.1
72.5°	4.1	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	2.7	2.7	2.7	2.7	2.7	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.0	0.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	595.3	588.6	585.2	592.0	594.7	591.3	588.6	583.8	588.6	591.3	594.7
5°	603.5	597.4	594.7	599.4	603.5	600.1	598.1	593.3	598.1	600.1	603.5
7.5°	610.9	604.8	601.4	606.2	610.9	606.2	604.1	600.1	604.1	606.2	610.9
10°	613.6	606.8	604.1	608.2	612.9	608.2	605.5	602.8	605.5	608.2	612.9
12.5°	618.3	611.6	608.2	611.6	616.3	611.6	608.9	606.8	608.9	611.6	616.3
15°	625.1	619.0	615.0	618.3	624.4	619.0	615.6	615.0	615.6	619.0	624.4
17.5°	625.1	620.4	616.3	619.0	625.1	621.1	616.3	617.7	616.3	621.1	625.1
20°	616.3	611.6	608.2	608.2	617.0	611.6	607.5	609.6	607.5	611.6	617.0
22.5°	600.8	596.7	593.3	592.6	601.4	596.7	591.3	595.3	591.3	596.7	601.4
25°	580.5	576.4	573.7	572.3	581.1	575.7	571.0	575.1	571.0	575.7	581.1
27.5°	554.1	550.7	548.0	546.0	554.1	549.3	544.6	548.7	544.6	549.3	554.1
30°	520.3	518.2	515.5	512.8	520.9	516.2	511.5	516.9	511.5	516.2	520.9
32.5°	481.0	479.7	476.3	473.6	481.7	476.3	472.9	477.0	472.9	476.3	481.7
35°	435.7	433.7	431.6	426.9	435.7	430.9	430.9	432.3	430.9	430.9	435.7
37.5°	384.9	383.6	380.9	376.8	384.3	380.9	379.5	383.6	379.5	380.9	384.3
40°	328.1	327.4	325.4	320.7	328.8	325.4	323.4	328.8	323.4	325.4	328.8
42.5°	268.6	267.2	265.2	264.5	268.6	265.9	267.9	267.9	267.9	265.9	268.6
45°	207.0	205.7	204.3	201.6	206.3	205.0	204.3	205.7	204.3	205.0	206.3
47.5°	150.2	148.8	147.5	145.5	150.2	148.2	148.2	149.5	148.2	148.2	150.2
50°	100.8	101.5	100.8	99.4	100.8	100.1	100.8	102.2	100.8	100.1	100.8
52.5°	67.0	67.0	65.6	64.9	66.3	65.6	67.7	66.3	67.7	65.6	66.3
55°	40.6	41.3	40.6	39.9	40.6	39.9	41.9	41.3	41.9	39.9	40.6
57.5°	23.0	23.0	23.7	23.0	24.4	23.7	23.7	23.7	23.7	23.7	24.4
60°	12.9	12.9	12.9	12.9	12.9	12.9	13.5	12.9	13.5	12.9	12.9
62.5°	8.8	8.8	8.8	8.1	8.8	8.1	8.8	8.8	8.8	8.1	8.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	592.0	585.2	588.6	595.3	585.9	594.0	589.3	581.1	581.1	587.2	588.6
5°	599.4	594.7	597.4	603.5	594.0	602.1	596.7	588.6	587.9	594.0	596.0
7.5°	606.2	601.4	604.8	610.9	600.8	608.9	604.1	595.3	594.0	600.1	602.1
10°	608.2	604.1	606.8	613.6	603.5	610.9	607.5	598.1	597.4	602.1	604.8
12.5°	611.6	608.2	611.6	618.3	608.2	615.6	612.3	602.8	601.4	607.5	609.6
15°	618.3	615.0	619.0	625.1	615.6	621.7	618.3	608.9	608.2	612.9	615.6
17.5°	619.0	616.3	620.4	625.1	615.6	621.7	619.0	608.9	608.2	613.6	615.6
20°	608.2	608.2	611.6	616.3	606.2	612.3	609.6	599.4	599.4	604.1	606.2
22.5°	592.6	593.3	596.7	600.8	590.6	596.7	594.0	583.8	584.5	588.6	591.3
25°	572.3	573.7	576.4	580.5	571.0	576.4	572.3	564.2	563.5	568.3	571.7
27.5°	546.0	548.0	550.7	554.1	545.3	549.3	546.6	538.5	537.8	542.6	546.0
30°	512.8	515.5	518.2	520.3	512.1	516.2	512.8	505.4	505.4	509.4	511.5
32.5°	473.6	476.3	479.7	481.0	472.9	477.6	474.9	466.8	466.8	470.9	474.9
35°	426.9	431.6	433.7	435.7	427.6	430.3	431.6	420.8	422.2	425.5	430.9
37.5°	376.8	380.9	383.6	384.9	377.5	380.2	380.9	371.4	372.8	375.5	381.6
40°	320.7	325.4	327.4	328.1	322.7	324.7	325.4	315.9	318.0	320.0	324.7
42.5°	264.5	265.2	267.2	268.6	263.8	264.5	265.9	257.1	259.8	260.5	265.2
45°	201.6	204.3	205.7	207.0	203.0	204.3	204.3	198.2	198.9	200.3	204.3
47.5°	145.5	147.5	148.8	150.2	146.8	148.2	148.2	142.1	144.1	144.8	147.5
50°	99.4	100.8	101.5	100.8	100.8	100.8	100.8	97.4	99.4	97.4	100.8
52.5°	64.9	65.6	67.0	67.0	64.9	66.3	66.3	63.6	64.3	64.3	66.3
55°	39.9	40.6	41.3	40.6	39.9	40.6	40.6	39.2	40.6	39.2	41.3
57.5°	23.0	23.7	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.3	23.7
60°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.5
62.5°	8.1	8.8	8.8	8.8	8.8	8.8	8.8	8.1	8.8	8.8	8.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.4
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.7	4.7	4.1	4.7	4.7
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	587.9	582.5	582.5	576.4	581.8	582.5	575.7	573.7	581.1	573.0	577.1
5°	593.3	587.9	587.9	581.8	585.9	585.9	579.1	575.7	583.2	575.1	578.4
7.5°	600.1	594.0	592.6	586.6	589.9	590.6	582.5	577.8	585.2	575.7	579.1
10°	602.1	595.3	594.7	588.6	591.3	592.0	582.5	578.4	584.5	574.4	576.4
12.5°	606.8	599.4	599.4	593.3	595.3	595.3	585.9	580.5	585.9	575.7	577.1
15°	612.3	604.1	604.1	598.1	599.4	600.1	588.6	583.2	587.9	577.1	578.4
17.5°	612.3	603.5	603.5	598.1	598.7	598.1	587.2	581.1	584.5	573.0	573.7
20°	602.8	594.0	595.3	589.3	589.9	589.3	577.8	571.7	575.1	562.9	564.2
22.5°	587.2	579.1	580.5	575.1	575.1	574.4	563.5	557.5	560.8	548.7	549.3
25°	567.6	559.5	560.8	555.4	556.1	556.1	545.3	538.5	541.9	531.1	531.1
27.5°	541.9	533.8	535.8	532.4	530.4	531.1	521.6	514.8	518.2	508.1	508.1
30°	508.8	502.0	504.0	501.3	499.3	499.3	491.2	484.4	487.8	479.0	478.3
32.5°	469.5	464.1	466.1	464.1	462.1	464.1	455.3	448.5	451.9	445.2	445.8
35°	426.9	421.5	422.8	420.8	419.4	420.8	412.0	407.3	410.7	403.9	406.6
37.5°	379.5	370.1	374.1	372.8	371.4	372.1	364.0	360.6	364.6	360.6	362.6
40°	324.1	317.3	320.0	318.6	317.3	320.7	314.6	309.9	313.2	310.5	314.6
42.5°	263.8	258.4	261.8	261.1	259.1	263.2	258.4	255.1	260.5	259.1	262.5
45°	203.0	198.9	201.6	201.6	200.9	204.3	199.6	200.3	205.7	207.7	211.8
47.5°	146.8	140.7	144.1	146.1	146.1	149.5	146.8	149.5	155.6	159.7	163.0
50°	100.1	98.8	99.4	100.1	101.5	104.2	103.5	107.6	111.6	118.4	122.5
52.5°	66.3	64.9	66.3	67.0	68.3	71.0	71.0	75.8	80.5	86.6	91.3
55°	41.3	40.6	41.3	41.9	43.3	46.0	46.7	51.4	56.2	62.2	66.3
57.5°	23.7	24.4	24.4	25.7	26.4	28.4	30.4	33.1	38.6	44.7	48.7
60°	13.5	13.5	14.2	14.9	15.6	17.6	18.9	21.6	25.7	31.8	34.5
62.5°	8.8	8.8	9.5	9.5	10.1	11.5	12.9	15.6	18.9	23.7	26.4
65°	7.4	7.4	7.4	8.1	8.1	9.5	10.8	12.9	15.6	18.9	21.6
67.5°	6.1	6.1	6.1	6.8	6.8	7.4	8.8	10.1	12.2	14.9	16.9
70°	4.7	4.7	4.7	5.4	5.4	6.1	6.8	7.4	9.5	11.5	12.9
72.5°	3.4	3.4	4.1	4.1	4.1	4.7	5.4	6.1	7.4	8.8	9.5
75°	2.7	2.7	2.7	2.7	3.4	3.4	4.1	4.7	5.4	6.1	6.8
77.5°	1.4	1.4	2.0	2.0	2.0	2.7	2.7	3.4	4.1	4.7	4.7
80°	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.7	3.4	3.4
82.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
2.5°	572.3	574.4	574.4	572.3	566.9	571.7	576.4	571.7	577.8	566.9	566.9
5°	572.3	573.7	573.0	570.3	564.9	569.0	572.3	567.6	572.3	562.2	561.5
7.5°	573.7	572.3	571.0	567.6	560.8	563.5	566.9	561.5	566.3	555.4	554.1
10°	571.0	569.0	566.3	561.5	554.1	556.1	558.1	553.4	556.8	546.0	545.3
12.5°	571.0	567.6	563.5	558.1	550.0	551.4	553.4	547.3	550.0	539.9	538.5
15°	572.3	566.3	561.5	555.4	546.6	547.3	548.7	541.9	544.6	533.8	533.1
17.5°	567.6	560.8	556.1	548.7	539.2	539.9	539.9	533.1	535.1	524.3	523.6
20°	557.5	549.3	543.9	537.2	527.0	527.0	527.0	520.3	521.6	512.1	510.8
22.5°	543.3	534.5	529.0	522.3	512.8	512.1	511.5	506.0	506.0	497.2	495.2
25°	524.3	516.2	510.8	504.7	495.2	493.9	493.9	489.1	488.5	480.3	479.0
27.5°	502.7	493.2	488.5	483.0	474.2	472.9	472.2	469.5	468.2	459.4	458.7
30°	473.6	465.5	461.4	456.7	448.5	447.2	446.5	443.8	443.1	434.3	434.3
32.5°	442.5	432.3	429.6	424.9	418.8	418.1	418.8	415.4	412.7	406.6	405.2
35°	405.2	395.1	393.1	391.0	386.3	384.9	384.3	383.6	380.2	376.2	374.1
37.5°	361.9	353.1	353.1	352.5	349.1	349.1	349.1	347.7	344.4	343.0	338.9
40°	315.3	308.5	309.2	309.9	308.5	309.2	309.9	308.5	305.8	304.4	301.1
42.5°	265.2	261.8	264.5	266.6	266.6	268.6	269.9	269.9	266.6	265.9	263.2
45°	215.1	214.5	219.9	223.9	225.3	228.7	230.7	229.3	229.3	229.3	226.6
47.5°	168.5	171.2	175.9	184.0	186.7	190.8	192.1	194.2	193.5	194.2	192.1
50°	127.9	134.0	140.0	148.2	152.2	157.0	159.0	161.7	161.7	162.4	161.0
52.5°	96.7	101.5	111.6	117.0	121.8	126.5	129.2	131.9	132.6	132.6	131.2
55°	71.7	78.5	85.2	92.7	96.7	101.5	103.5	106.2	106.2	107.6	106.2
57.5°	52.1	58.9	66.3	71.7	76.4	79.8	81.9	83.9	85.2	85.2	84.6
60°	38.6	44.0	50.1	55.5	59.5	62.9	64.3	66.3	67.0	67.0	65.6
62.5°	29.1	34.5	39.9	44.7	47.4	50.1	51.4	52.8	52.8	52.8	52.1
65°	23.7	27.7	31.8	35.9	38.6	40.6	41.3	42.6	41.9	42.6	41.9
67.5°	18.9	21.6	25.0	27.7	29.8	31.1	31.8	33.1	32.5	33.1	32.5
70°	14.2	16.9	18.9	21.0	22.3	23.7	24.4	25.0	24.4	25.0	24.4
72.5°	10.8	12.2	14.2	16.2	16.9	17.6	18.3	18.3	18.3	18.9	18.3
75°	7.4	8.8	10.1	10.8	12.2	12.9	12.9	13.5	13.5	13.5	13.5
77.5°	5.4	6.1	6.8	7.4	8.1	8.8	8.8	9.5	9.5	9.5	9.5
80°	3.4	4.1	4.1	4.7	5.4	5.4	6.1	6.1	6.1	6.1	6.1
82.5°	2.0	2.7	2.7	3.4	3.4	3.4	4.1	4.1	4.1	4.1	4.1
85°	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	581.1	581.1	581.1	581.1
2.5°	572.3	569.0	574.4	566.3
5°	566.3	562.9	569.6	559.5
7.5°	558.8	555.4	561.5	551.4
10°	549.3	546.0	551.4	540.5
12.5°	541.2	537.8	543.9	533.8
15°	535.1	531.8	537.2	527.7
17.5°	525.7	521.6	527.7	517.5
20°	512.1	509.4	514.2	504.0
22.5°	496.6	493.9	499.3	489.1
25°	480.3	477.0	482.4	472.2
27.5°	459.4	456.7	462.1	451.9
30°	434.3	431.6	437.0	427.6
32.5°	405.9	403.2	407.3	399.2
35°	373.4	371.4	375.5	366.7
37.5°	338.3	336.2	340.3	331.5
40°	300.4	298.3	301.7	297.7
42.5°	263.2	261.1	264.5	261.1
45°	226.6	225.3	228.7	225.3
47.5°	192.8	191.5	194.8	191.5
50°	160.3	161.0	162.4	161.0
52.5°	131.2	131.2	133.3	131.2
55°	106.2	106.9	107.6	106.2
57.5°	84.6	84.6	85.2	84.6
60°	65.6	66.3	66.3	65.6
62.5°	52.1	52.1	52.1	52.1
65°	41.3	41.3	41.9	41.3
67.5°	32.5	31.8	32.5	31.8
70°	24.4	24.4	24.4	24.4
72.5°	18.9	18.9	18.3	18.3
75°	13.5	14.2	13.5	13.5
77.5°	9.5	9.5	9.5	9.5
80°	6.1	6.1	6.1	6.1
82.5°	4.1	4.1	4.1	4.1
85°	2.7	2.0	2.0	2.0
87.5°	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

























(END OF REPORT)